

# Fujitsu LifeBook P Series BIOS Guide

LifeBook P Series Model:

P-1032

P-1035

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# FUJITSU PC CORPORATION

# P Series BIOS BIOS SETUP UTILITY

The BIOS Setup Utility is a program that sets up the operating environment for your notebook. Your BIOS is set at the factory for normal operating conditions, therefore there is no need to set or change the BIOS environment to operate your notebook.

The BIOS Setup Utility configures:

- Device control feature parameters, such as changing I/O addresses and boot devices.
- System Data Security feature parameters, such as passwords.

## **Entering the BIOS Setup Utility**

To enter the BIOS Setup Utility do the following:

- 1. Turn on or restart your notebook.
- 2. Press the [F2] key once the Fujitsu logo appears on the screen. This will open the main menu of the BIOS Setup Utility with the current settings displayed.
- 3. Press the [RIGHT ARROW] or [LEFT ARROW] key to scroll through the other setup menus to review or alter the current settings.

## Navigating Through The Setup Utility

The BIOS setup utility consists of seven menus; Main, Advanced, Security, Power, Boot, Info and Exit. This document explains each menu, including all submenus and setup items.

The following procedures allow you to navigate the setup utility menus:

- 1. To select a menu, use the cursor keys: [ ← ] [ → ].
- To select a field within a menu or a submenu, use the cursor keys: [ ↓ ], [ ↓ ].

# ΡΟΙΝΤS

- Selecting a field causes a help message about that field to be displayed on the right-hand side of the screen.
- Pressing the Enter key with the highlight on a selection that is not a submenu or auto selection will cause a list of all options for that item to be displayed. Pressing the Enter key again will select the highlighted choice.

- To select the different values for each field, press the [Spacebar] or [+] to change to the next higher selection and [F5] or [-] to go to the next lower selection.
- 4. To activate a submenu press [Enter].
- 5. To return to a menu from a submenu, press [Esc].
- 6. To go to Exit menu from another menu, press [Esc].
- 7. Pressing the [F9] key resets all items in the BIOS to the default values.
- 8. Pressing the [F10] key saves the current configuration and exits the BIOS Setup Utility. You will be asked to verify this selection before it is executed.
- 9. Pressing the [F1] key gives you a general help screen.

#### Entering the Setup Utility After a Configuration Change or System Failure

If there has been a change in system configuration that does not match the parameter settings stored in your BIOS memory, or there is a failure in the system, the system beeps and/or displays an error message after the Power On Self Test (POST). If the failure is not severe, it will give you the opportunity to modify the settings of the setup utility, as described in the following steps:

1. When you turn on or restart the computer there is a beep and/or the following message appears on the screen:

Error message - please run SETUP program Press <F1> key to continue, <F2> to run SETUP

2. If an error message is displayed on the screen, and you want to continue with the boot process and start the operating system anyway, press the [F1] key.

# ΡΟΙΝΤS

If your settings require it, you may be asked for a password before the operating system will be loaded.

- 3. If an error message is displayed on the screen, and you want to enter the setup utility, press the [F2] key.
- 4. When the setup utility starts with a fault present, the system displays the following message:

Warning! Error message

[Continue]

5. Press any key to enter the setup utility. The system will then display the Main Menu with current parameters values.

# MAIN MENU – SETTING STANDARD SYSTEM PARAMETERS

The Main Menu allows you to set or view the current system parameters. Follow the instructions for Navigating Through the Setup Utility to make any changes.

The following tables show the names of the menu fields for the Main menu and its submenus, all of the options for each field, the default settings and a description of the field's function and any special information needed to help understand the field's use.

# POINT

System Time and System Date can also be set from your operating system without using the setup utility. Use the calendar and time icon on your Windows Control Panel. When you change these settings from your desktop, the BIOS is automatically updated with the same changes.

PhoenixBIOS Setup Utility						
Main Advanced	Security	Pow	er I	Boot	Infc	) Exit
System Time:	[14:57:01	]				Item Specific Help
System Date:	[01/26/20	02]				
Primary Master	[TOSHIBA	MK201	8GAP-(1	PM)]		Adjust calendar clock.
Language:	[English	(US)]				<tab>, <shift-tab>, or <enter> selects field.</enter></shift-tab></tab>
-	Item -/S Menu I		-			F9 Setup Defaults F10 Save and Exit

Figure 1. Main Menu

Menu Field	Options	Default	Description
System Time:	_		Sets and displays the current time. Time is in a 24 hour format of hours:minutes:seconds with 2 digits for each. (HH:MM:SS). Example: 16:45:57. You may change each segment of the time separately. Move between the segments with the [ <b>Tab</b> ] key and/or [ <b>Shift</b> ] + [ <b>Tab</b> ] keys.
System Date:			Sets and displays the current date. Date is in a month/day/year numeric format with 2 digits each for month and day and 4 digits for year. (MM/DD/YYYY) for example: 03/20/1998. You may change each segment of the date separately. Move between the segments with the [ <b>Tab</b> ] key and/or [ <b>Shift</b> ] + [ <b>Tab</b> ] keys.
Primary Master:	Selects Primary Master submenu		Displays the type of device on this ATA/ATAPI interface, if there is one. Pressing the Enter key selects the Primary Master submenu allowing additional device configuration options for this interface.
Language:	<ul><li>English (US)</li><li>Japanese (JP)</li></ul>	[English (US)]	The default setting differs between the US/European and the Japa- nese model. Selects the display language for the BIOS.

#### Main Menu

## Primary Master Submenu of the Main Menu

The Primary Master submenu identifies which ATA devices are installed.

**Note:** Actual hard drive label shown may vary. Depending on the drive type, information such as cylinders, heads and sectors may also be displayed.

PhoenixBIOS Setup Utility					
Main					
Primary Master [FU	Item Specific Help				
Type: Cylinders: Heads: Sectors: Maximum Capacity: Multi-Sector Transfers: LBA Mode Control: PIO Transfer Mode: DMA Transfer Mode:	[Auto] [16383] [16] [63] 8455MB [16 Sectors] [Enabled] [FAST PIO 4] [Ultra DMA 4]	Select ATA/ATAPI drive installed here. [Auto] The BIOS auto-types the drive on boot time. Except [Auto] You enter parameters of the drive. [None] The drive is disabled.			
F1 Help ↑↓ Select Item BSC Exit ↔ Select Menu		F9 Setup Defaults Menu F10 Save and Exit			

Figure 2. Primary Master Submenu

#### Table 2: Fields, Options and Defaults for the Primary Master Submenu of the Main Menu

Menu Field	Options	Default	Description
Туре:	<ul> <li>Auto</li> <li>None</li> <li>CD-ROM</li> <li>Hard Disk</li> </ul>	[Auto]	(Note: There is no drop-down menu available for the Type field. To change the options, use the plus "+" and minus "-" keys.) Selects the ATA/ATAPI device type. Select Auto to have the type automatically identified by the BIOS at POST. If None is selected, all of the following Set-up items do not appear. If Hard Disk is selected, you must specify the number of Cylinders, Heads, and Sectors for the drive. The CD-ROM option is not currently used; it is reserved for future use.
Cylinders:	• A number between 0 and 65,535		This item appears only when the type is identifed as Hard Disk. When Hard Disk is selected, you can change the value. This field is changed by incrementing (pressing the [Spacebar]) or by typing in the number.
Heads:	• A number between 1 and 16		This item appears only when the type is identifed as Auto or Hard Disk. When Hard Disk is selected, you can change the value. This field is changed by incrementing (pressing the [Spacebar]) or by typing in the number.

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Menu Field	Options	Default	Description
Sectors:	A number between     0 and 63		This item appears only when the type is identifed as Auto or Hard Disk. When Hard Disk is selected, you can change the value. This field is changed by incrementing (pressing the [Spacebar]) or by typing in the number.
Maximum Capacity:	• Display only		Displays the maximum capacity of the drive calculated from the parameters of the hard disk when Hard Disk is selected.
Multi-Sector Transfers:	<ul> <li>Disabled</li> <li>2 Sectors</li> <li>4 Sectors</li> <li>8 Sectors</li> <li>16 Sectors</li> <li>32 Sectors</li> <li>64 Sectors</li> <li>128 Sectors</li> </ul>	[16 Sectors]	This option cannot be changed when Auto is selected. Specify the number of sectors per block for multiple sector transfer.
LBA Mode Control:	<ul><li>Disabled</li><li>Enabled</li></ul>	[Enabled]	Enables or disables logical Block Addressing in place of Cylinder, Head, Sector addressing. This option cannot be changed when Auto is selected.
PIO Transfer Mode:	<ul> <li>Standard</li> <li>Fast PIO 1</li> <li>Fast PIO 2</li> <li>Fast PIO 3</li> <li>Fast PIO 4</li> </ul>	[Fast PIO 4]	Selects the method for moving data to/from the drive. Autotype the drive to select the optimum transfer mode. This option cannot be changed when Auto is selected. Multi-word DMA is automati- cally set to mode 1 for Fast PIO 1, Fast PIO 2, Fast PIO 3, and set to mode 2 for Fast PIO 4 / DMA.
DMA Transfer Mode:	<ul> <li>Disabled</li> <li>Multiword DMA 1</li> <li>Multiword DMA 2</li> <li>Ultra DMA 0</li> <li>Ultra DMA 1</li> <li>Ultra DMA 2</li> <li>Ultra DMA 3</li> <li>Ultra DMA 4</li> </ul>	[Ultra DMA 4]	Selects the method for moving data to/from the drive. Autotype the drive to select the optimum transfer mode. This option cannot be changed when Auto is selected.

#### Table 2: Fields, Options and Defaults for the Primary Master Submenu of the Main Menu

#### Advanced Menu

# **ADVANCED MENU – SETTING DEVICE FEATURE CONTROLS**

The Advanced Menu allows you to:

- Enable or disable support for Plug & Play operating systems.
- Select between the display panel and an external CRT display.
- Enable or disable compensation for your display.
- Configure PCI devices in your system.
- Configure CPU and USB features.

Follow the instructions for Navigating Through the Setup Utility to make any changes.

The following tables show the names of the menu fields for the Advanced Menu and its submenus, all of the options for each field, the default settings and a description of the field's function and any special information needed to help understand the field's use.

PhoenixBIOS Setup Utility Main Advanced Security Power Boot Info Exit Item Specific Help [No] Plug & Play O/S: [No] Keyboard/Mouse Features The BIOS configures ▶ Video Features also non-boot devices. Internal Device Configurations Select if you are using ▶ PCI Configurations CPU Features a non-Plug & Play OS or a non-ACPI OS. USB Features Event Logging [Yes] The BIOS configures only boot devices. -/Space Change Values Help Select Item Setup Defaults ESC Exit Select Menu Select ▶ Sub-Menu F10 Save and Exit

Figure 3. Advanced Menu

Menu Field	Options	Default	Description
Plug & Play O/S:	• No • Yes	[No]	Select <b>Yes</b> if you are using a Plug & Play capable operating system. Select <b>No</b> if you need the BIOS to configure non-boot devices.
Keyboard/Mouse Features			When selected, opens the Keyboard/Mouse Features submenu, which allows setting external and internal keyboard and mouse parameters.
Video Features	—		When selected, opens the Video Features submenu, which allows setting of the display parameters, including routing of video signals to different displays.
Internal Device Configurations	—	—	When selected, opens the Internal Device Configurations submenu, which allows enabling or disabling the Floppy Disk, IDE, and LAN Controllers.
PCI Configurations	—		When selected, opens additional menus to configure PCI devices.
CPU Features	—		When selected, opens the CPU Features submenu, which allows enabling or disabling of Processor Serial Number feature.
USB Features	—	—	When selected, opens the USB Features submenu, which allows enabling or disabling USB.
Event Logging	—		When selected, opens the event logging submenu.

## Table 3: Fields, Options and Defaults for the Advanced Menu

## Keyboard/Mouse Features Submenu of the Advanced Menu

The Keyboard/Mouse Features submenu is for setting the parameters of the integrated and external mouse and keyboard.

PhoenixBIOS Setup Utility				
Advanced				
Keyboard/Mouse Features	Item Specific Help			
Numlock: [Auto] Internal Pointing Device: [Manual Setting]	Select power-on state for Numlock.			
Fl Help†↓ Select Item-/Space Change ValuesESC Exit++ Select MenuEnter Select ► Sub-Menu	_			

Figure 4. Keyboard/Mouse Features Submenu

Menu Field	Options	Default	Description
Numlock:	<ul><li>Auto</li><li>On</li><li>Off</li></ul>	[Auto]	Sets the NumLock function state when the computer completes booting.
Internal Pointing Device:	<ul> <li>Manual Setting</li> <li>Always Enabled</li> <li>Always Disabled</li> </ul>	[Manual Setting]	Configures the internal pointing device. When Manual Setting is selected, the internal pointing device can be enabled or disabled by using the [Fn] + [F4] keys. When Always Enabled is selected, the internal device is always selected. When Always Disabled is selected, the internal pointing device cannot be used.

## Video Features Submenu of the Advanced Menu

The Video Features Submenu is for setting the display parameters.

PhoenixBIOS Setup Utility Advanced				
v	ideo Features	Item Specific Help		
Display Compensation:	[ <mark>Internal Flat Panel</mark> ] [Enabled]	Select display terminal.		
—	Select Item -/Space Change Values Select Menu Enter Select ≽ Sub-Me	-		

Figure 5. Video Features Submenu

## Table 5: Fields, Options and Defaults for the Video Features Submenu of the Advanced Menu

Menu Field	Options	Default	Description
Display:	<ul> <li>Internal Flat-Panel</li> <li>External</li> <li>Simultaneous</li> </ul>	[Internal Flat-Panel]	Selects where the video signal will be routed.
Compensation:	<ul><li>Disabled</li><li>Enabled</li></ul>	[Enabled]	Enables or disables compensation which controls spacing on the display. When enabled, displays with less than pixel resolution 800 x 600 will still cover the entire screen.

#### Internal Device Configurations Submenu of the Advanced Menu

The Internal Device Configurations submenu allows the user to configure other internal devices.

PhoenixBIOS Setup Utility Advanced	
Internal Device Configurations	Item Specific Help
IDE Controller: [Enabled] Touch Panel: [Enabled]	[Disabled] IDE port is disabled. [Enabled] IDE port is enabled.
F1 Help ↑↓ Select Item -/Space Change Values ESC Exit ↔ Select Menu Enter Select ► Sub-M	-

Figure 6. Internal Device Configurations Submenu

# Table 6: Fields, Options and Defaults for the Internal Device Configurations Submenu of the Advanced Menu

Menu Field	Options	Default	Description		
IDE Controller:	<ul><li>Disabled</li><li>Enabled</li></ul>	[Enabled]	Enables or disables selected IDE controller.		
Touch Panel:	<ul><li>Disabled</li><li>Enabled</li></ul>	[Enabled]	Enables or disables touch panel.		

## PCI Configurations Submenu of the Advanced Menu

The PCI Configurations submenu allows the user to reserve specific interrupts (IRQs) for legacy ISA devices, and to enable or disable built in PCI device modules.

PhoenixBIOS Setup Utility Advanced	
PCI Configurations	Item Specific Help
► IRQ Reservation	Reserve specific IRQs for use by legacy ISA devices.
F1 Help ↑↓ Select Item -/Space Change Values ESC Exit ↔ Select Menu Enter Select ▶ Sub-M	

Figure 7. PCI Configurations Submenu

#### Table 7: Fields, Options and Defaults for the PCI Configurations Submenu of the Advanced Menu

Menu Field	Options	Default	Description
IRQ Reservation	—		Reserve specific IRQs for use by legacy ISA devices.

## IRQ Reservation Submenu of the PCI Configurations Submenu

The IRQ Reservation submenu of the PCI Configurations submenu allows the user to mark various IRQs as reserved for use by legacy ISA devices. When an IRQ is reserved, the BIOS does not use it for embedded PCI or ISA devices.

PhoenixBIOS Setup Utility Advanced IRQ Reservation Item Specific He	
IRQ Reservation Item Specific He	
IRQ Reservation Item Specific He	
	lp
IRQ 3: [Available] IRQ 4: [Available] IRQ 5: [Available] IRQ 7: [Available] IRQ 9: [Available] IRQ 10: [Available] IRQ 11: [Available] IRQ 15: [Available]	
F1 Help ↑↓ Select Item -/Space Change Values F9 Setup Defa ESC Exit ↔ Select Menu Enter Select ▶ Sub-Menu F10 Save and E	

Figure 8. IRQ Reservation Submenu

Table 8: Fields, Options and Defaults for the IRQ Reservation Submenu of the PCI Configurations Submenu

Menu Field	Options	Default	Description
IRQ 3:	<ul><li>Available</li><li>Reserved</li></ul>	[Available]	Reserves IRQ 3. If Reserved is selected, BIOS reserves IRQ 3 for use by legacy ISA devices and does not use it for embedded PCI/ISA devices. IRQ 3 is removed from the IRQ bitmap in the PCI IRQ routing table.
IRQ 4:	<ul><li> Available</li><li> Reserved</li></ul>	[Available]	Reserves IRQ 4.
IRQ 5:	<ul><li> Available</li><li> Reserved</li></ul>	[Available]	Reserves IRQ 5.
IRQ 7:	<ul><li> Available</li><li> Reserved</li></ul>	[Available]	Reserves IRQ 7.
IRQ 9:	<ul><li> Available</li><li> Reserved</li></ul>	[Available]	Reserves IRQ 9.
IRQ 10:	<ul><li>Available</li><li>Reserved</li></ul>	[Available]	Reserves IRQ 10.
IRQ 11:	<ul><li>Available</li><li>Reserved</li></ul>	[Available]	Reserves IRQ 11.
IRQ 15:	<ul><li>Available</li><li>Reserved</li></ul>	[Available]	Reserves IRQ 15.

## CPU Features Submenu of the Advanced Menu

The CPU Features submenu configures certain features of the CPU in the system.

PhoenixBIOS Setup Utility					
Advanced					
CPU Features	Item Specific Help				
Processor Serial Number: Disabled]	Configures Processor Serial Number feature of Pentium(R) III processor. [Disabled] Processor Serial Number feature is disabled. [Enabled] Processor Serial Number feature is enabled.				
F1 Help ↑↓ Select Item -/Space Change Values ESC Exit ↔ Select Menu Enter Select ▶ Sub-Me	—				

Figure 9. CPU Features Submenu

#### Table 9: Fields, Options and Defaults for the CPU Features Submenu of the Advanced Menu

Menu Field	Options	Default	Description
Processor Serial Number:	<ul><li>Enabled</li><li>Disabled</li></ul>	[Disabled]	Enables or disables the Processor Serial Number feature of the processor.

## USB Features Submenu of the Advanced Menu

The USB Features submenu configures the USB capabilities of the system.

PhoenixBIOS Setup Utility Advanced	
USB Features	Item Specific Help
USB Storage Device: [Enabled]	[Disabled] Legacy Storage Device Emulation is disabled. [Enabled] Legacy Storage Device Emulation is enabled. USB floppy and/or USB CD-ROM are available without USB aware OS.
F1 Help ↑↓ Select Item -/Space Change Values ESC Exit ↔ Select Menu Enter Select ▶ Sub-Me	F9 Setup Defaults enu F10 Save and Exit

Figure 10. USB Features Submenu

#### Table 10: Fields, Options and Defaults for the USB Features Submenu of the Advanced Menu

Menu Field	Options	Default	Description
USB Storage Device:	<ul><li>Disabled</li><li>Enabled</li></ul>	[Enabled]	When enabled, Legacy Storgae Device Emulation is enabled and USB floppy and/or CD-ROM are available without USB-aware OS.

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## Event Logging Submenu of the Advanced Menu

The Event Logging submenu is for setting up the logs for DMI event logging.

Ph Advanced	oenixBIOS Setup Utility	
Event Logg	Item Specific Help	
Event Log Capacity: Event Log Validity: View Event Log: Event Logging: System Boot Event: Clear All Event Logs: Mark Events as Read:	Space Available Valid [Enter] [Enabled] [Disabled] [No] [Enter]	Press <enter> key to view the contents of the event log.</enter>
F1 Help ↑↓ Select Item ESC Exit ↔ Select Menu		_

Figure 11. Event Logging Submenu

#### Table 11: Fields, Options and Defaults for the Event Logging Submenu of the Advanced Menu

Menu Field	Options	Default	Description	
Event Log Capacity:		Space Available	Display only	
Event Log Validity:		Valid	Display only	
View Event Log:	• Enter	[Enter]	Allows you to view content of event log.	
Event Logging:	<ul><li>Disabled</li><li>Enabled</li></ul>	[Enabled]	Turns event logging on and off for all DMI events.	
System Boot Event:	<ul><li>Disabled</li><li>Enabled</li></ul>	[Disabled]	Turns event logging on and off for DMI system boot events.	
Clear All Event Logs:	<ul><li>No</li><li>Yes</li></ul>	[No]	When set to [Yes] all event logs will be cleared at next boot.	
Mark Events as Read:	• Enter	[Enter]	Allows you to make all events currently in the event log as rea	

# **SECURITY MENU – SETTING THE SECURITY FEATURES**

The Security menu allows you to set up the data security features of your notebook to fit your operating needs and to view the current data security configuration. Follow the instructions for Navigating Through the Setup Utility to make any changes.

The following tables show the names of the menu fields for the Security menu and its submenus, all of the options for each field, the default settings and a description of the field's function and any special information needed to help understand the field's use. The default condition is no passwords required and no write protection.

# POINT

If you set a password, write it down and keep it in a safe place. If you forget the password you will have to contact your support representative to regain access to your secured functions and data.

# POINTS

- If you make an error when re-entering the password a [Warning] will be displayed on the screen. To try again, press the **Enter** key and then retype the password. Press the **Esc** key to abort the password setting process.
- Entering a password incorrectly three times in a row will cause the keyboard and mouse to be locked out and the warning [System Disabled] to be displayed. If this happens, restart the computer by turning off and on the power with the power switch and use the correct password on reboot.
- If the Password on Resume is Enabled and the Password on Boot is Disabled you will not have to type your password upon resuming the system from the Suspend or Save-to-Disk modes. Power Management Security will work only if Password on Boot is enabled.

PhoenixBIOS Setup Utility					
Main Advanced	Security	Power	Boot	Info	Exit
Supervisor Password I	Clear		I	tem Specific Help	
User Password Is:		Clear			ss <enter> key to</enter>
Set Supervisor Passwo	rd	[Enter	-		Supervisor password
Set User Password		[Enter	]		enable any password
Minimum User Password	Length	[0]		fea	tures.
Password on Boot: Password on Resume:		[Disabled] [Disabled]			n password entry is uired to enter BIOS up.
Boot from Removable M	edia:	[A11]			
Floppy Disk Access:		[A11]			
▶ Hard Disk Security					
► Owner Information	► Owner Information				
Hard Disk Boot Sector	:	[Norma	1]		
F1 Help ↑↓ Select ESC Exit ↔ Select			ange Value lect⊳Sub-i		F9 Setup Defaults F10 Save and Exit

Figure 12. Security Menu

Menu Field	Options	Default	Description
Supervisor Password is:		Clear	A display-only field. Set is displayed when the system supervisor pass- word is set and Clear when it is not.
User Password is:		Clear	A display-only field. Set is displayed when the general user password is set, and Clear when it is not.
Set Supervisor Pass- word		[Enter]	Sets, changes or cancels the Supervisor Password. The Supervisor Password may be up to seven characters long and must include only letters or numbers (no symbols). Passwords are NOT case- sensitive. To cancel a password press the <b>Enter</b> key instead of entering characters in the Enter New Password field and in the Re-enter New Password field. When a Supervisor Password is set it must be used to access the BIOS setup utility.
Set User Password		[Enter]	Can only be accessed if Supervisor Password is set. Sets, changes or cancels the User Password. The User Password may be up to seven characters long and must include only letters or numbers (no sym- bols). Passwords are NOT case-sensitive. To cancel a password press the <b>Enter</b> key instead of entering characters in the Enter New Pass- word field and in the Re-enter New Password field. When a User Password is set it must be used to access the BIOS setup utility.
Minimum User Password Length:		[0]	
Password on Boot:	<ul><li>Disabled</li><li>First Boot</li><li>Every Boot</li></ul>	[Disabled]	When set to Disabled, no password is required. When set to First Boot, password entry required only before first boot. When Every Boot is selected, password required whenever the system is booted.
Password On Resume:	<ul><li>Disabled</li><li>Enabled</li></ul>	[Disabled]	When Enabled, PS/2 keyboard and mouse inputs are locked out upon Resume From Suspend or Save-to-Disk until entering password.
Boot from Removable Media:	All     Supervisor only	[All]	When Supervisor Only is selected, only the Supervisor can boot from removeable media. Only the user who enters the Supervisor Password before OS boot is treated as the Supervisor. When All is selected, boot from removeable media is not restricted.
Floppy Disk Access:	All     Supervisor only	[All]	When Supervisor Only is selected, only the Supervisor can access the floppy disk. Only the user who enters the Supervisor Password before OS boot is treated as the Supervisor. When All is selected, floppy disk access is not restricted.
Hard Disk Security:			Configures hard disk security features.
Owner Information:		—	Sets Owner information.
Hard Disk Boot Sec- tor:	<ul><li>Normal</li><li>Write Protected</li></ul>	[Normal]	Sets protection mode for hard disk drive.

#### Table 12: Fields, Options and Defaults for the Security Menu

#### Exiting from the Security Menu

When you have finished setting the parameters on the Security Menu, you can either exit from setup utility or

move to another menu. If you wish to exit from setup utility, press the [Esc] key to go to the Exit Menu. If you wish to move to another menu, use the cursor keys.

## Hard Disk Security Submenu of the Security Menu

The Hard Disk Security submenu is for configuring hard disk security features.

PhoenixBIOS Setup Utility Security					
Hard Disk Security	Item Specific Help				
Primary Master: [Disabled]	[Disabled] The feature is disabled. [Enabled] The hard disk is locked with the pasword. Data in the locked disk cannot be read on any systems other than the original system on which it was locked, or on systems that have the identical password setting.				
F1       Help       ↑↓ Select Item       -/Space       Change Values         ESC       Exit       ↔ Select Menu       Enter       Select ► Sub-Me	_				

Figure 13. Hard Disk Security Submenu

#### Table 13: Fields, Options and Defaults for the Hard Disk Security Submenu of the Security Menu

Menu Field	Options	Default	Description
Primary Master:	<ul><li>Disabled</li><li>Enabled</li></ul>	[Disabled]	Disabled: No password protection. Enabled: Hard drive is locked with the password. Data in the locked disk cannot be read on any systems other than the original system on which it was locked, or on systems that have the identical pass- word setting.

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## Owner Information Submenu of the Security Menu

The Owner Information submenu is for setting owner information.

Pl	hoenixBIOS Setup Utility	Y
Main Advanced <mark>Sec</mark>	urity Power Boot	Info Exit
Owner Information Is:	Clear	Item Specific Help
Set Owner Information		
-	[Gray] [Black]	
F1 Help ↑↓ Select Iter ESC Exit ↔ Select Menu		ues F9 Setup Defaults ub-Menu F10 Save and Exit

Figure 14. Owner Information Submenu

Menu Field	Options		Default	Description
Owner Information Is:			Clear	Display only.
Set Owner Information:	—		[Enter]	Field to write owner information, i.e. name.
Foreground Color:	Black     Brown     Blue     Green     Gray     Cyan     Red     Magenta     Black     Brown     White     Gray     Uight Blue     Light Green	<ul> <li>Light Cyan</li> <li>Light Red</li> <li>Light Magenta</li> <li>Light Yellow</li> <li>Bright White</li> </ul>	[Gray]	
Background Color:	Black     Brown     Blue     Green     Gray     Cyan     Red     Magenta     Black     Brown     White     Gray     Uight Blue     Light Green	<ul> <li>Light Cyan</li> <li>Light Red</li> <li>Light Magenta</li> <li>Light Yellow</li> <li>Bright White</li> </ul>	[Black]	

# **POWER MENU – SETTING POWER MANAGEMENT FEATURES**

The Power menu allows you to set and change the power management parameters. Follow the instructions for Navigating Through the Setup Utility to make any changes. The following tables show the names of the menu fields for the Power menu and its submenus, all of the options for each field, the default settings and a description of the field's function and any special information needed to help understand the field's use.

PhoenixBIOS Setup Utility					
Main Advanced Se	curity Power	Boot	Info 1	Exit	
Power Savings:	[Customized]		Iter	a Specific Help	
Hard Disk Timeout: Display Timeout: Standby Timeout: Auto Suspend Timeout:	[Off] [Off] [4 Minutes] [15 Minutes]		Mode. change	Power Management Choosing modes s system power ment settings.	
Suspend Mode: Auto Save To Disk:	[Suspend] [Off]		Maximu conser amount	m Power Savings ves the greatest of system power	
Resume On Modem Ring: Resume On Time: Resume Time:	[Off] [Off] [00:00:00]		Perfor power	Maximum mance conserves but allows st system	
► Advanced Features			perfor these Custom power	mance. To alter setting, choose nize. To turn off management, Disabled.	
F1 Help ↑↓ Select Ite ESC Exit ↔ Select Men		-		Setup Defaults 8 Save and Exit	

Figure 15. Power Menu

#### Table 15: Fields, Options and Defaults for the Power Menu

Menu field	Options	Default	Description
Power Savings:	<ul> <li>Disabled</li> <li>Customized</li> <li>Maximum Power Savings</li> <li>Maximum Performance</li> </ul>	[Customized]	Sets the power savings parameters to a factory installed combination of parameters, a custom set of parameters set by you or no power saving features.
Hard Disk Timeout:	Off     30 seconds to     20 Minutes	[Off]	Sets the length of time that the hard drive can be inactive before your note- book automatically turns off the power to the hard drive controller and drive motor. If you choose a factory installed combination of parameters this field will display the setting. If you choose to customize the parameters you will be able to set this yourself. The options available vary from Off, which has no inactivity shutoff, to 20 minutes.
Display Timeout:	Off     2 to 20 Minutes	[Off]	Sets the length of time without any user input device activity before the display is turned off. If you choose a factory combination of parameters, this field will display the setting. If you choose to customize the parameters, you will be able to set this yourself. Off has no inactivity shutoff.

Table 15: Fields, Options an	d Defaults for the Power Menu
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Menu field	Options	Default	Description
Standby Timeout:	Off     1 to 16 Minutes	[4 Minutes]	Sets the length of time without any user input device activity before the CPU is set to half speed and the display and the hard drive are turned off. If you choose a factory combination of parameters this field will display the setting. If you choose to customize the parameters you will be able to set it yourself.
Auto Suspend Timeout:	Off     5 to 60 minutes	[15 Minutes]	Sets the length of time without any I/O activity before your note-book goes into Suspend mode. If you choose a factory combination of parameters this field will display that setting. If you choose to customize the parameters you will be able to set this yourself. Off has no inactivity suspension.
Suspend Mode:	<ul><li>Suspend</li><li>Save to Disk</li></ul>	[Suspend]	Sets the form of suspension state. If you choose Suspend, you will suspend operation with power to system memory, and everything else powered down or in a very low power state. If you choose Save-to-Disk your note- book will save all of system memory and the operating parameters to the hard drive before turning your notebook to the pseudo-off condition.
Auto Save to Disk:	Off     After 1 Hour	[Off]	When set to "After 1 Hour", your notebook will automatically save all system memory and the operating parameters to the hard drive and go to pseudo-off if the notebook is left in Suspend mode for more than an hour.
Resume On Modem Ring:	• Off • On	[Off]	Sets whether or not to Resume from a suspension state when a message is received by telephone line. This feature will not operate if the Save-to-Disk mode is enabled. This feature applies to internal and external modems.
Resume On Time:	• Off • On	[Off]	Sets whether or not to resume from a suspension state at a designated time. This feature is available from either the Suspend or Save-to-Disk modes.
Resume Time:		[00:00:00]	Sets the designated time, on a 24-hour clock, when the notebook is to automatically resume operation from the Suspend state. The format of the clock setting is hours:minutes:seconds. Each segment of the time is set separately, either by incrementing or by typing in the numbers. You move between the segments with the [ <b>Tab</b> ] key or the [ <b>Shift</b> ]+[ <b>Tab</b> ] keys. This only applies when Resume on Time is set to On.
Advanced Features:			When selected, opens the Advanced Features submenu which allows setting additional power saving parameters.

# Factory Installed Values for Power Saving Profiles

	Hard Disk Timeout	Video Timeout	Standby Timeout	Auto Suspend Timeout
Customized:	Off	Off	4 Minutes	15 Minutes
Maximum Power Savings:	30 Seconds	2 Minutes	1 Minute	5 Minutes
Maximum Performance:	Off	Off	Off	15 Minutes
Disabled:	Off	Off	Off	Off
Sample Customized Profile: (To get even better battery life keep the display and volume settings as low as pos- sible and use the sample customized profile.)	2 Minutes	1 Minute	1 Minute	5 Minutes

### Advanced Features Submenu of the Power Menu

The Advanced Features submenu is for setting some non-time related power saving parameters.

PhoenixBIOS Setup Utility Power Power					
Advanced Features	Item Specific Help				
Suspend/Resume Switch: [Enabled] Lid Closure Suspend: [On] Lid Open Resume: [Off]	Configures the Suspend/Resume switch.				
Fl Help ↑4 Select Item -/Space Change Values ESC Exit ↔ Select Menu Enter Select ▶ Sub-M	-				

Figure 16. Advanced Features Submenu

Table 16: Fields, Options and Defaults for the Advanced Features Submenu of the Power Me	u of the Power Menu
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Menu Field	Options	Default	Description
Suspend/Resume Switch:	<ul><li>Disabled</li><li>Enabled</li></ul>	[Enabled]	Sets the function of the Suspend/Resume button when your note- book is in an active state. The resume function can not be disabled as it works regardless of any other settings.+
Lid Closure Suspend:	• Off • On	[On]	Enables and disables having closure of the Display panel put your notebook in Suspend mode.
Lid Open Resume:	• Off • On	[On]	Enables and disables having opening the Display panel acting as an automatic resume.

#### **Exiting from Power Menu**

When you have finished setting the boot parameters with the Power menu, you can either exit from the setup utility or move to another menu. If you wish to exit from

the setup utility press the [**Esc**] key to go to the Exit menu. If you wish to move to another menu, use the cursor keys.

# **BOOT MENU – SELECTING THE OPERATING SYSTEM SOURCE**

The Boot Menu is used to select the order in which the BIOS searches sources for the operating system. Follow the instructions for Navigating Through the Setup Utility to make any changes. The following tables show the names of the menu fields for the Boot menu and its submenu, all of the options for each field, the default settings and a description of the field's function and any special information needed to help understand the field's use.

PhoenixBIOS	Setup Utility	
	В	oot
Quick Boot:	[Enabled	Item Specific Help
Boot Time Diagnostic Screen:	[Disabled]	
	[Disabled]	<pre>[Disabled] All diagnostic tests will be done. [Enabled] Some diagnostic tests may be skipped while booting to speed up. [Auto] Diagnostic tests will be automatically skipped or done according to the order</pre>
		of the ACPI OS.
F1 Help ↑↓ Select Item -/Space Ch ESC Exit ↔ Select Menu Enter Se	nange Values elect ► Sub-Menu	-

Figure 17. Boot Menu

Table 17: Fields, Options and Defaults for the Boot Menu

Menu Field	Options	Default	Description
QuickBoot Mode:	<ul><li>Disabled</li><li>Enabled</li><li>Auto</li></ul>	[Enabled]	Turns on and off booting with a truncated set of Power On Self Test. (Fewer tests mean faster turn on.)
Boot-time Diagnostic Screen:	<ul><li>Disabled</li><li>Enabled</li></ul>	[Disabled]	Turns on and off display of test results instead of Fujitsu logo screen during Power On Self Test.
Preboot Execution Environment	<ul><li>Disabled</li><li>Enabled</li></ul>	[Disabled]	Turns off and on the preboot execution environment feature.
Boot Device Priority	Selects the Boot Device Priority submenu	_	This menu allows setting up the source for the operating system.

#### Boot Device Priority Submenu of the Boot Menu

The Boot Device Priority submenu is for setting the order of checking of sources for the operating system.

PhoenixBIOS Setup Utility					
Boot					
Boot Device Priority	Item Specific Help				
Floppy Disk Drive +Hard Disk Drive USB CD-ROM Drive	The top device has the highest priority. <enter> expands or collapses devices with a + or <ctrl+enter> expands all. <f> or &lt;↓&gt; selects a device. &lt;+&gt;/<space> or &lt;-&gt; moves the device up or down. <shift +="" 1=""> enables or disables a device.</shift></space></f></ctrl+enter></enter>				
F1 Help ↑↓ Select Item -/Space Change Values ESC Exit ↔ Select Menu Enter Select ▶ Sub-Men	-				

Figure 18. Boot Device Priority Submenu

Table 18: Fields, O	ptions and Defaults f	or the Boot Device Priority	/ Submenu of the Boot Menu
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Menu Field	Options	Description	
Floppy Disk Drive		The boot selections determine the order in which the BIOS searches for the operating system during a startup sequence. To change the order highlight one source by using the <b>[up]</b> or <b>[down]</b> cursor keys and then press the [+] or [-] key to change the order number for that source. Be sure to save your changed order when you exit the BIOS setup utility.	
Hard Disk Drive	<ul> <li>TOSHIBA MHK2018GAP-(PM)</li> <li>Bootable Add-in Cards</li> </ul>	_	
USB CD-ROM Drive	There is no USB CD-ROM device currently available for this system; this option is reserved for future use.		

#### **Exiting from Boot Menu**

When you have finished setting the boot parameters with the Boot menu, you can either exit from the setup utility or move to another menu. If you wish to exit from the setup utility press the [**Esc**] key to go to the Exit menu. If you wish to move to another menu, use the cursor keys.

# **INFO MENU - DISPLAYS BASIC SYSTEM INFORMATION**

The Info menu is a display-only screen that provides the configuration information for your notebook.

The following table shows the names of the menu fields for the Info menu and the information displayed in those fields. These fields are for information purposes only, and are not editable (except for the Asset Number as in the Point below).

# POINTS

- The asset number is an optional user-entered field and can be entered through the use of third party DMI Compliant software, such as LANdesk Client Manager.
- The information displayed on this screen is variable according to the unit you purchased.

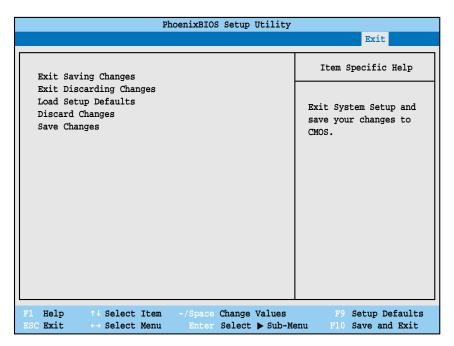
	PhoenixBIOS Setup Utility	
		Info
		Item Specific Help
BIOS Version: BIOS Date: BIOS Area:	11/08/2001	
CPU Type: CPU Speed: L1 Cache: L2 Cache:	700 MHz 128 KB	
Total Memory:	112 MB	
CMS Mode: CMS Revision: OEM ID:		
=	lect Item -/Space Change Values lect Menu Enter Select ▶ Sub-Me	-

Figure 19. Info Menu

Menu Field	Default	Menu Field	Default	
BIOS Version:	1.02e	L2 Cache:	256 KB	
BIOS Date:	11/08/2001	Total Memory:	112 MB	
BIOS Area:	E400h – FFFFh	CMS* Mode: Normal		
CPU Type:	Transmeta TM5500 processor	CMS* Revision: 4.2.6-8-168		
CPU Speed:	700 MHz	OEM ID: FJCFG-0105000103		
L1 Cache:	128 KB	*CMS = Code Morphing Software (Crusoe processor software architecture that results in longer battery life.)		

# EXIT MENU – LEAVING THE SETUP UTILITY

The Exit Menu is used to leave the setup utility. Follow the instructions for Navigating Through The Setup Utility to make any changes.



#### Figure 20. Exit Menu

The following table shows the names of the menu fields for the Exit menu, the default settings and a description of the field's function and any special information needed to help understand the field's use.

Table 20: Fields, Options and Defaults for the Exit Menu

Menu Field	Optional Keyboard Shortcut	Default	Description
Exit Saving Changes	Press the F10 key		Exit Saving Changes and Exit will store all the entries on every menu of the setup utility to the BIOS memory and then exit the setup utility. A confirmation message Save Configuration changes and exit now? [Yes] [No] will be displayed.
Exit Discarding Changes	_		Selecting Exit Discarding Changes and Exit will exit the setup utility with out writing to the BIOS memory. When the BIOS recognizes this selection it will load the operating system and begin operation.

Table 20: Fields,	Options	and Defaults	for the	Exit Menu
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Menu Field	Optional Keyboard Shortcut	Default	Description
Load Setup Defaults	Press the F9 key	_	Selecting Load Setup Defaults will load the factory preset default values for all menu fields, then display the message Load default configuration now? [Yes] [No]. When con- firmed the setup utility will return to the Exit Menu. To return to another menu follow the directions in the Navigating Through The Setup Utility section.
Discard Changes			Selecting Discard Changes will load the previous values in BIOS memory for all menu fields. The message Load previous now? [Yes] [No] will be displayed. When confirmed the setup utility will return to the Exit menu. To return to another menu, follow the directions in the Navigating Through The Setup Utility section.
Save Changes			Selecting Save Changes will cause the new settings in all menus to be written to the BIOS memory. The message Save configura- tion changes now? [Yes] [No] will be displayed. When confirmed, the setup utility will return to the Exit menu. To return to another menu, follow the directions in the Navigating Through The Setup Utility section.